

FIG. 1

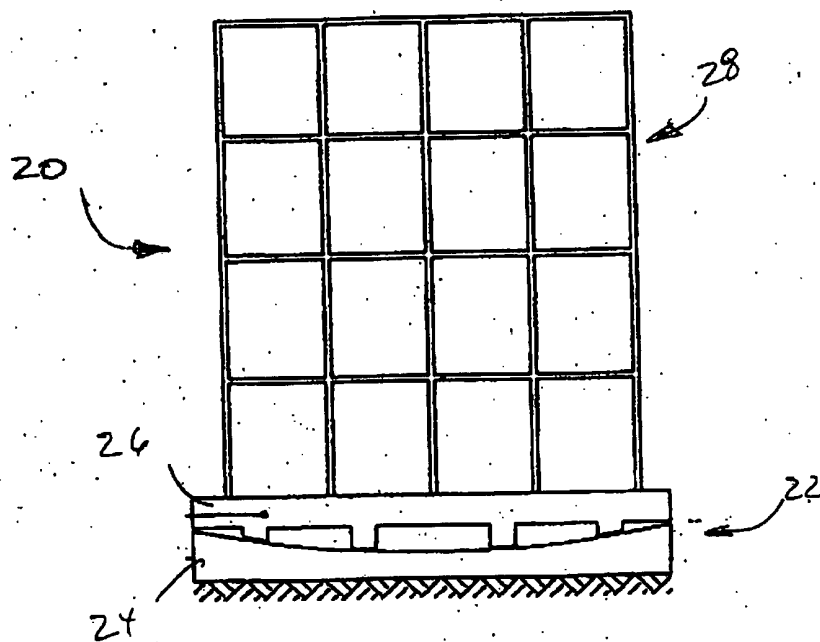


FIG. 2

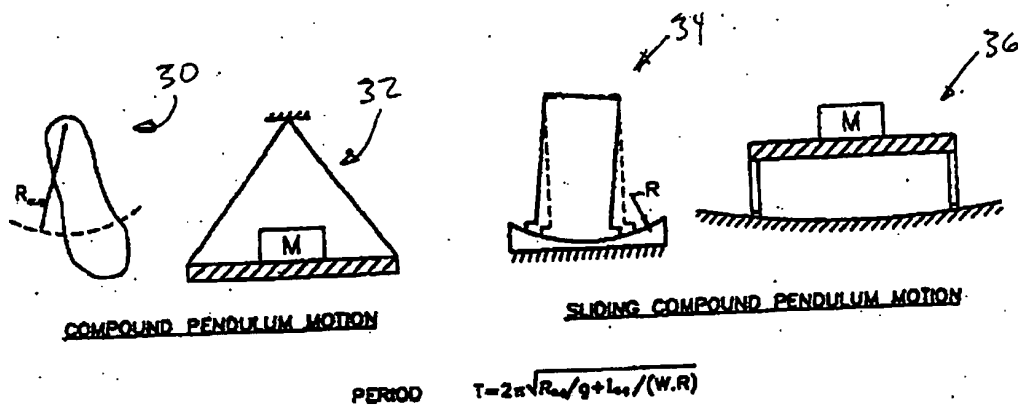


FIG. 3

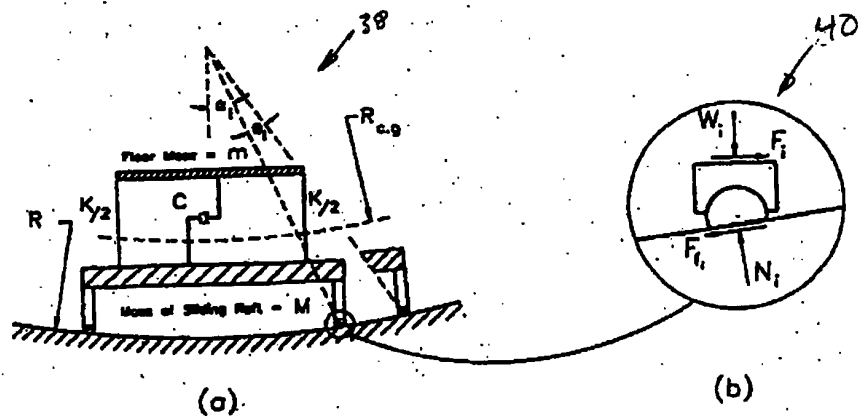
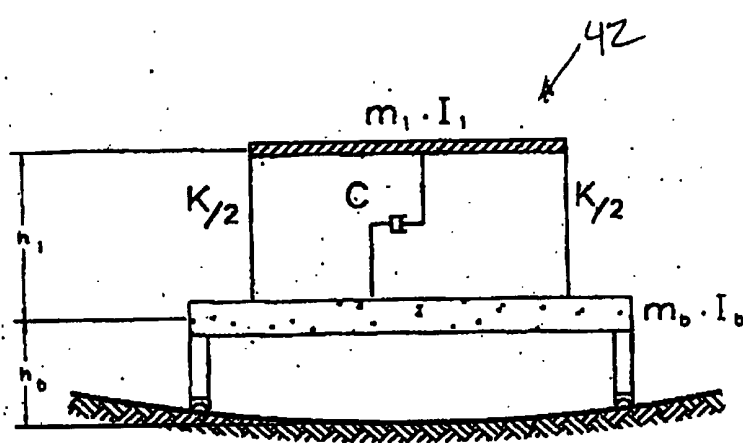


FIG. 4



$m_1 = 350.2$	kg
$I_1 = 4109$	kg-m^2
$m_2 = 350.2$	kg
$I_2 = 4109$	kg-m^2
$K = 8.64 \times 10^4$	N/m
$C = 550.1$	N.sec/m
$T = 0.4$	sec
$R = 15.0$	m
$h_1 = 6.0$	m
$h_2 = 1.0$	m
$\mu = 0.08$	
$\zeta = 0.05$	

FIG. 5

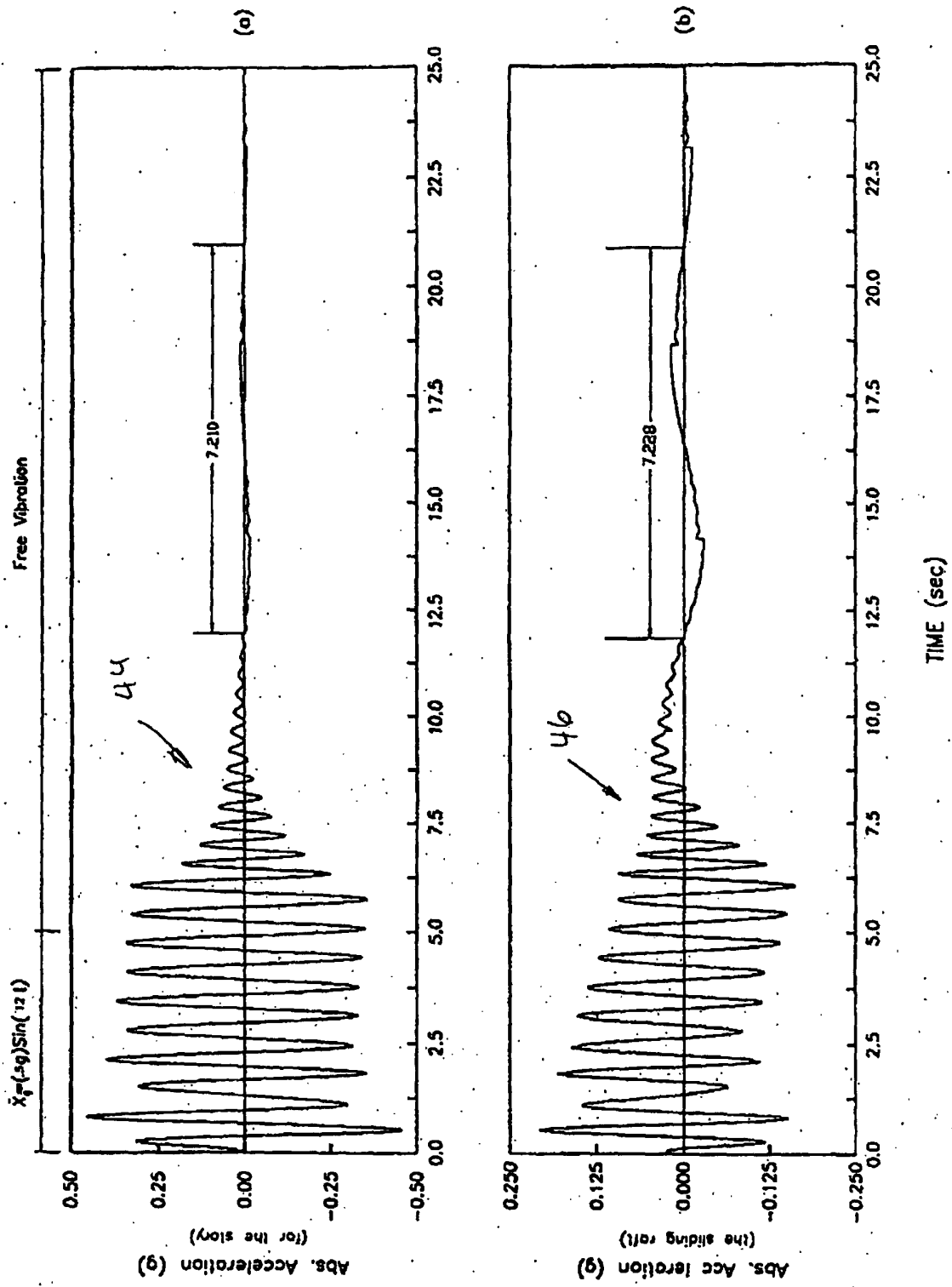
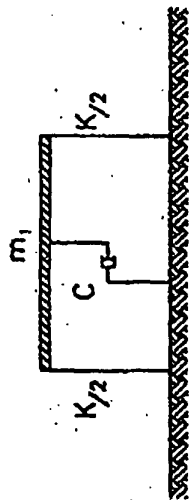


FIG. 6

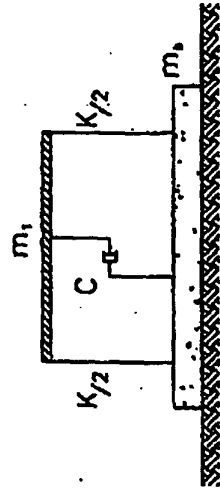
48 ↗



$m_1 = 350.2$ kg
 $K = 8.64 \times 10^4$ N/m
 $C = 550.1$ N.sec/m
 $T = 0.4$ sec
 $\zeta = 0.05$

(a)

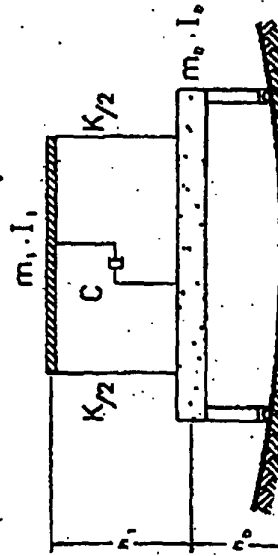
50 ↗



$m_1 = 350.2$ kg
 $m_2 = 350.2$ kg
 $K = 8.64 \times 10^4$ N/m
 $C = 550.1$ N.sec/m
 $T = 0.4$ sec
 $\mu = 0.08$
 $\zeta = 0.05$

(b)

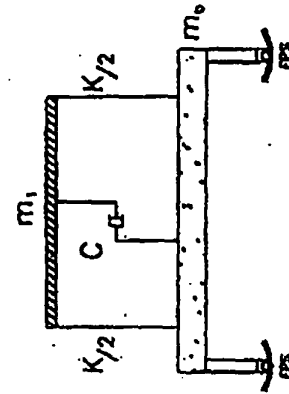
52 ↗



$m_1 = 350.2$ kg
 $I_1 = 4109$ kg-m²
 $m_2 = 350.2$ kg
 $I_2 = 4109$ kg-m²
 $K = 8.64 \times 10^4$ N/m
 $C = 550.1$ N.sec/m
 $T = 0.4$ sec
 $R = 31.0$ m
 $h_1 = 6.0$ m
 $h_2 = 1.0$ m
 $\mu = 0.08$
 $\zeta = 0.05$

(c)

54 ↗



$m_1 = 350.2$ kg
 $m_2 = 350.2$ kg
 $K = 8.64 \times 10^4$ N/m
 $C = 550.1$ N.sec/m
 $T = 0.4$ sec
 $R = 1.0$ m
 $\mu = 0.08$
 $\zeta = 0.05$

(d)

FIG. 7

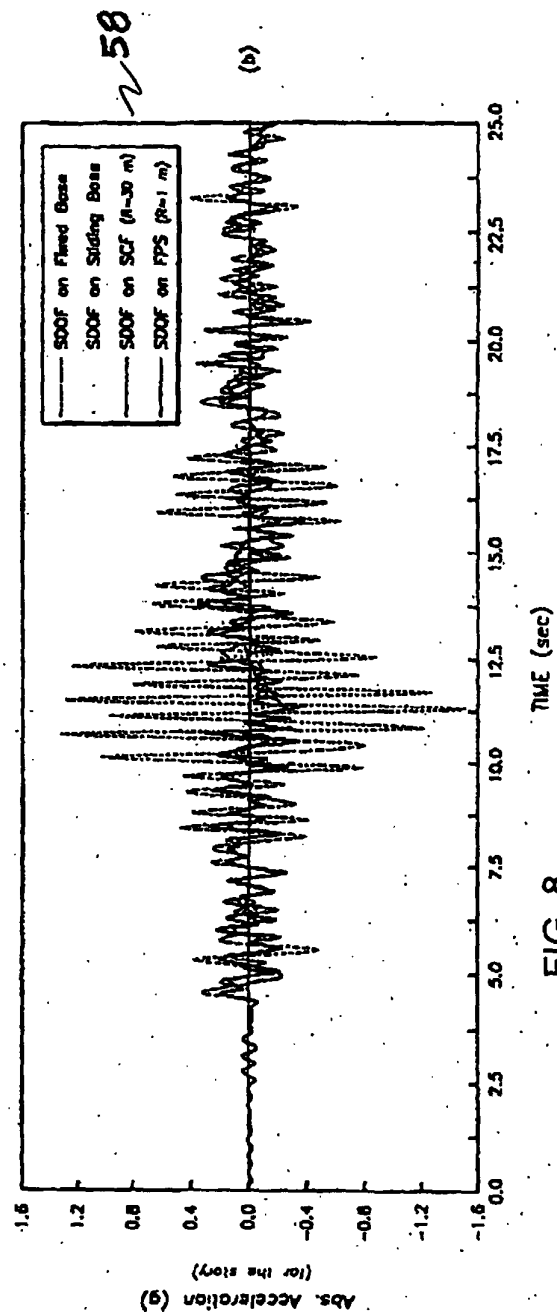
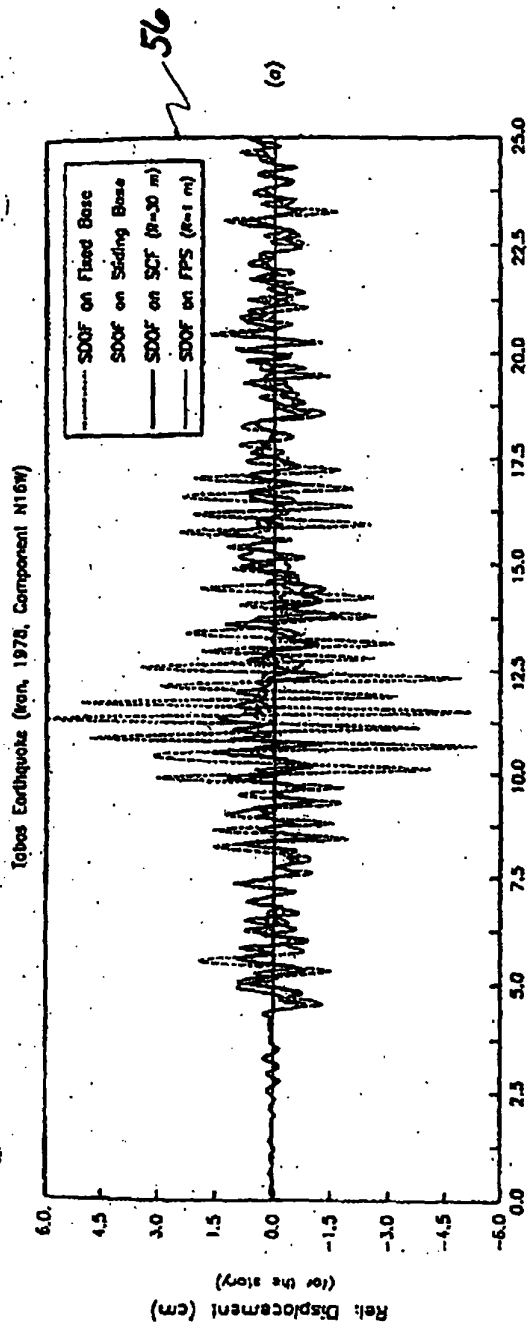


FIG. 8

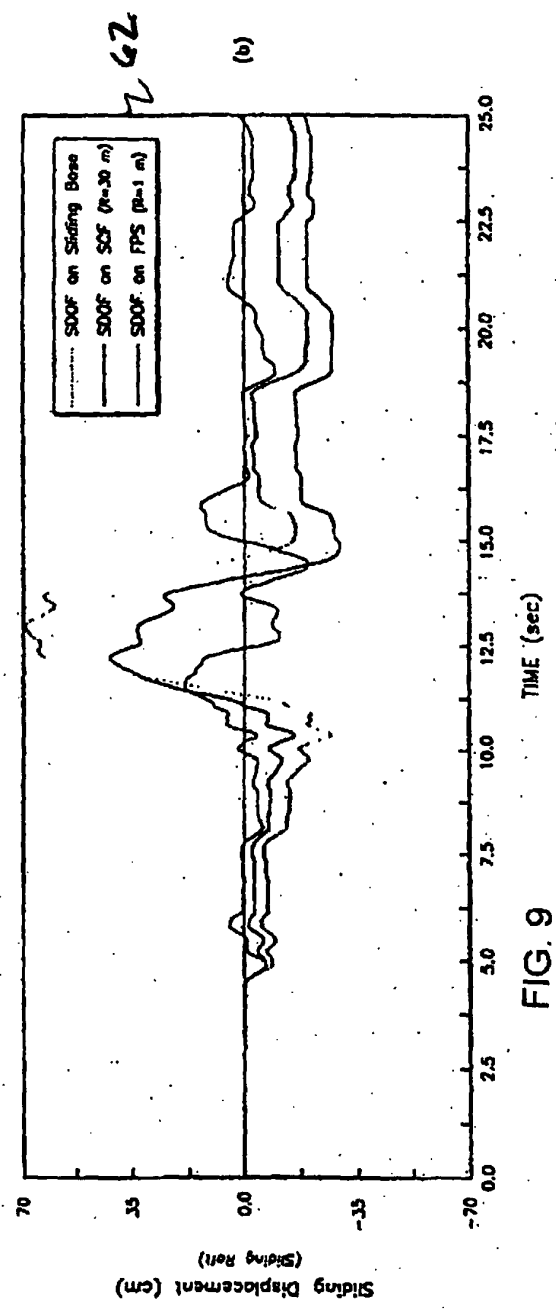
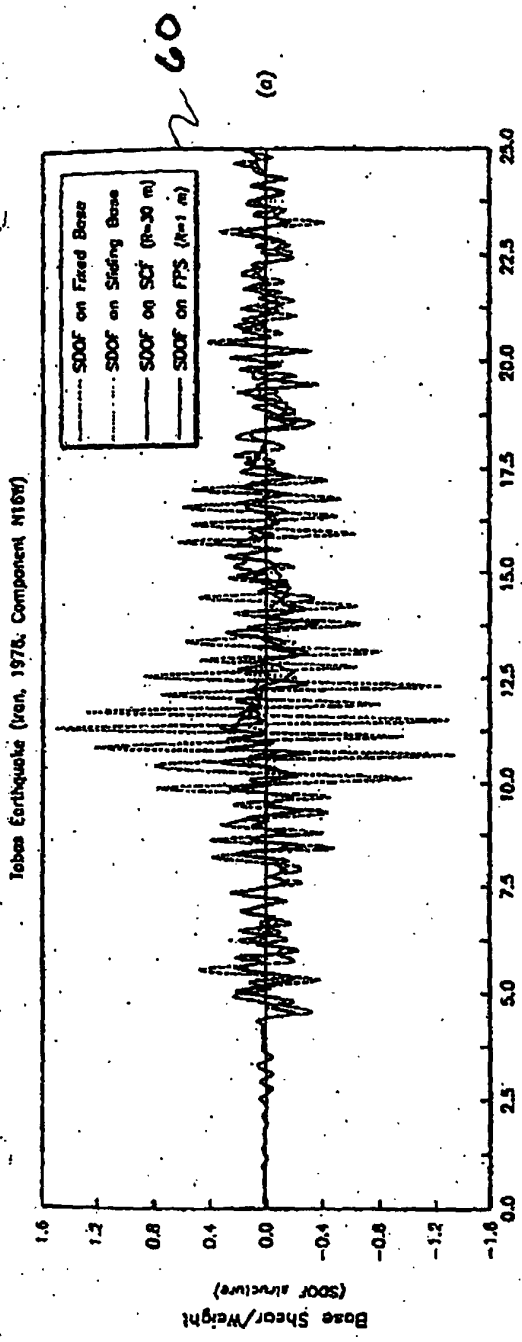


FIG. 9

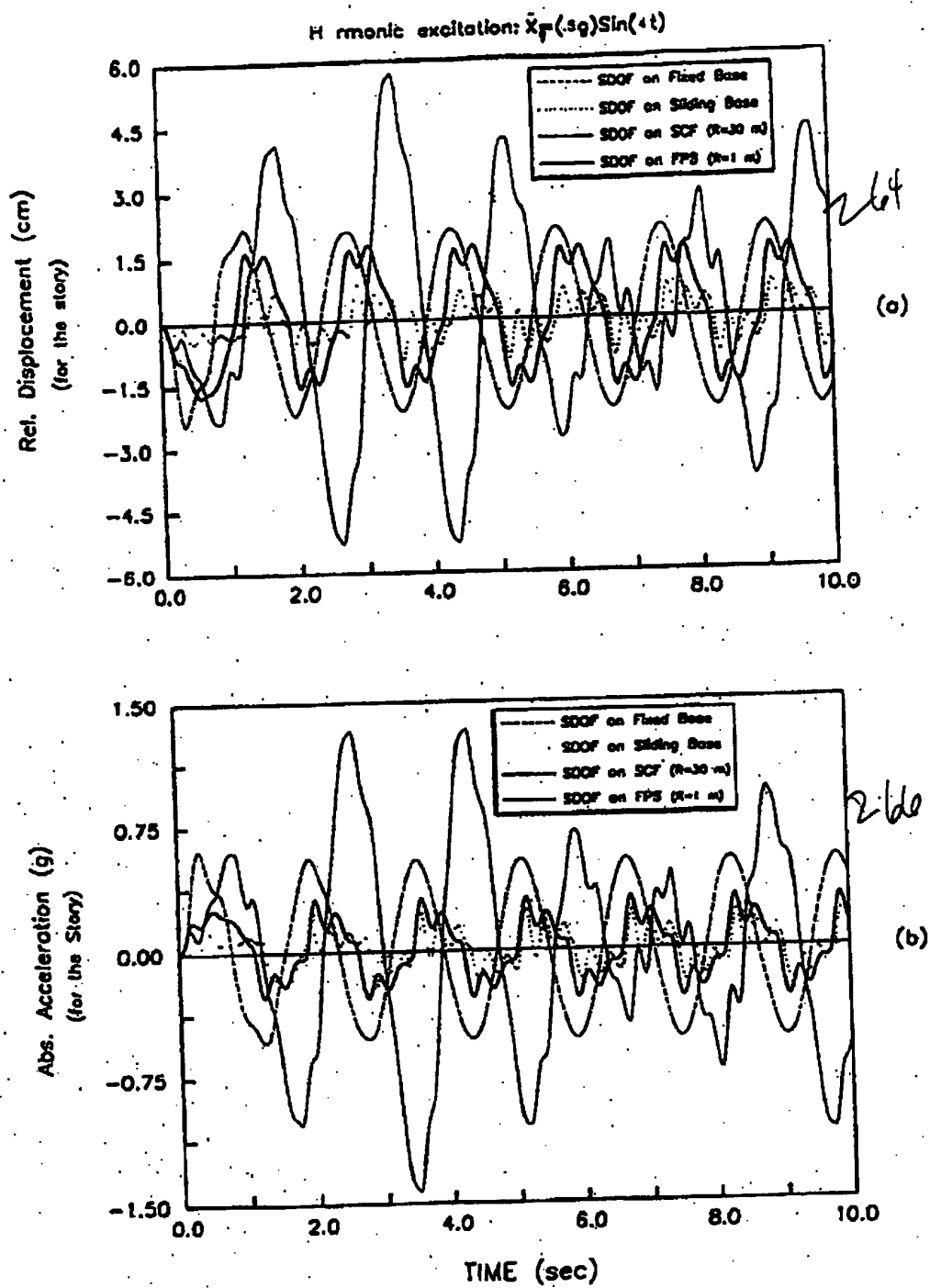


FIG. 10

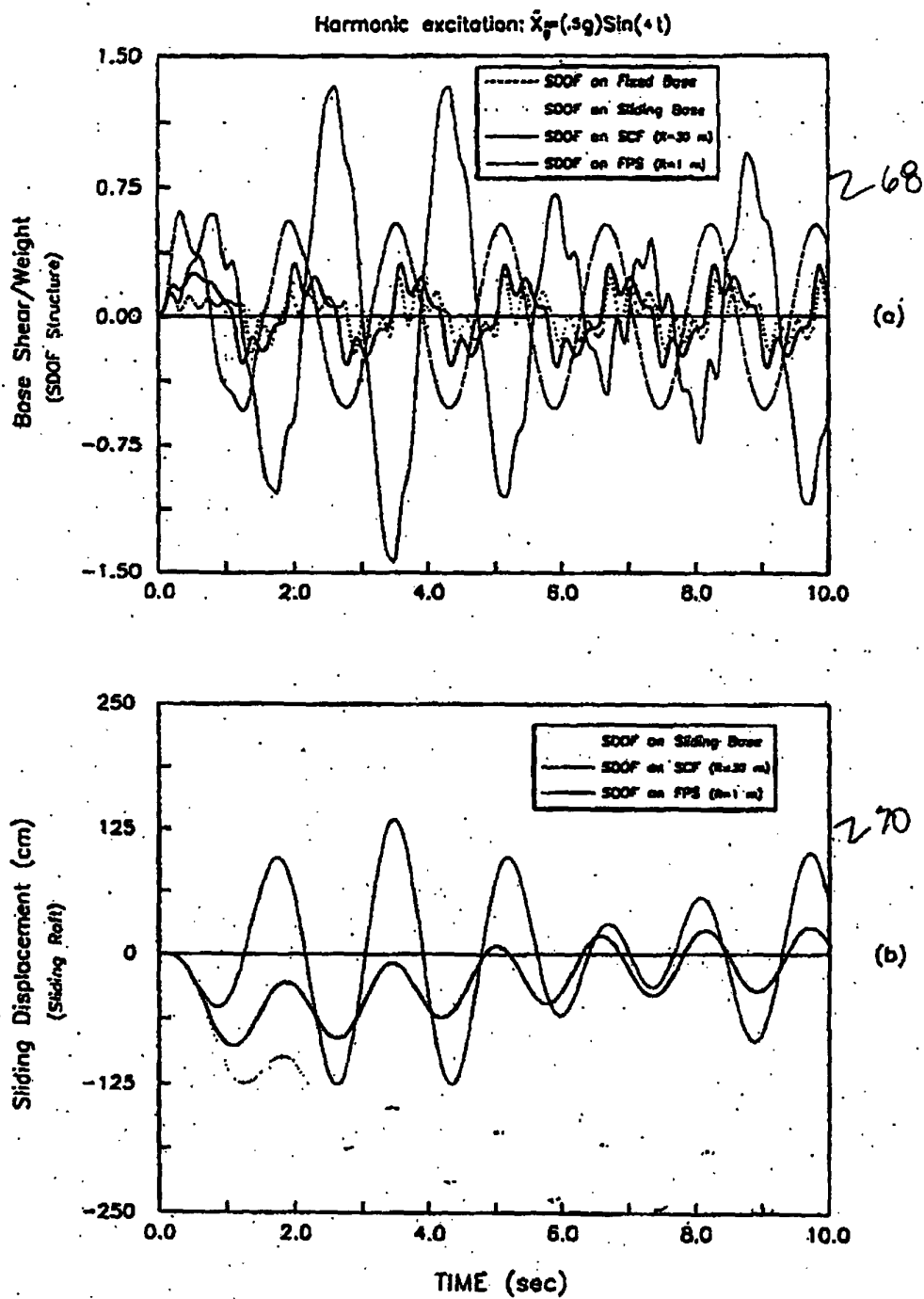


FIG. 11

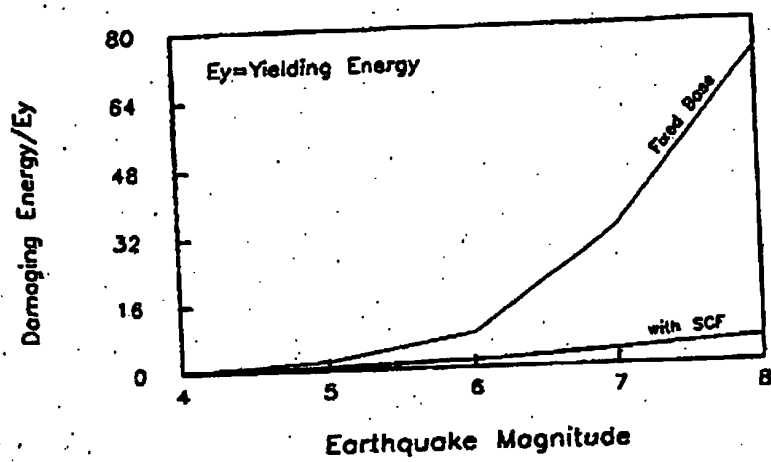


FIG. 12

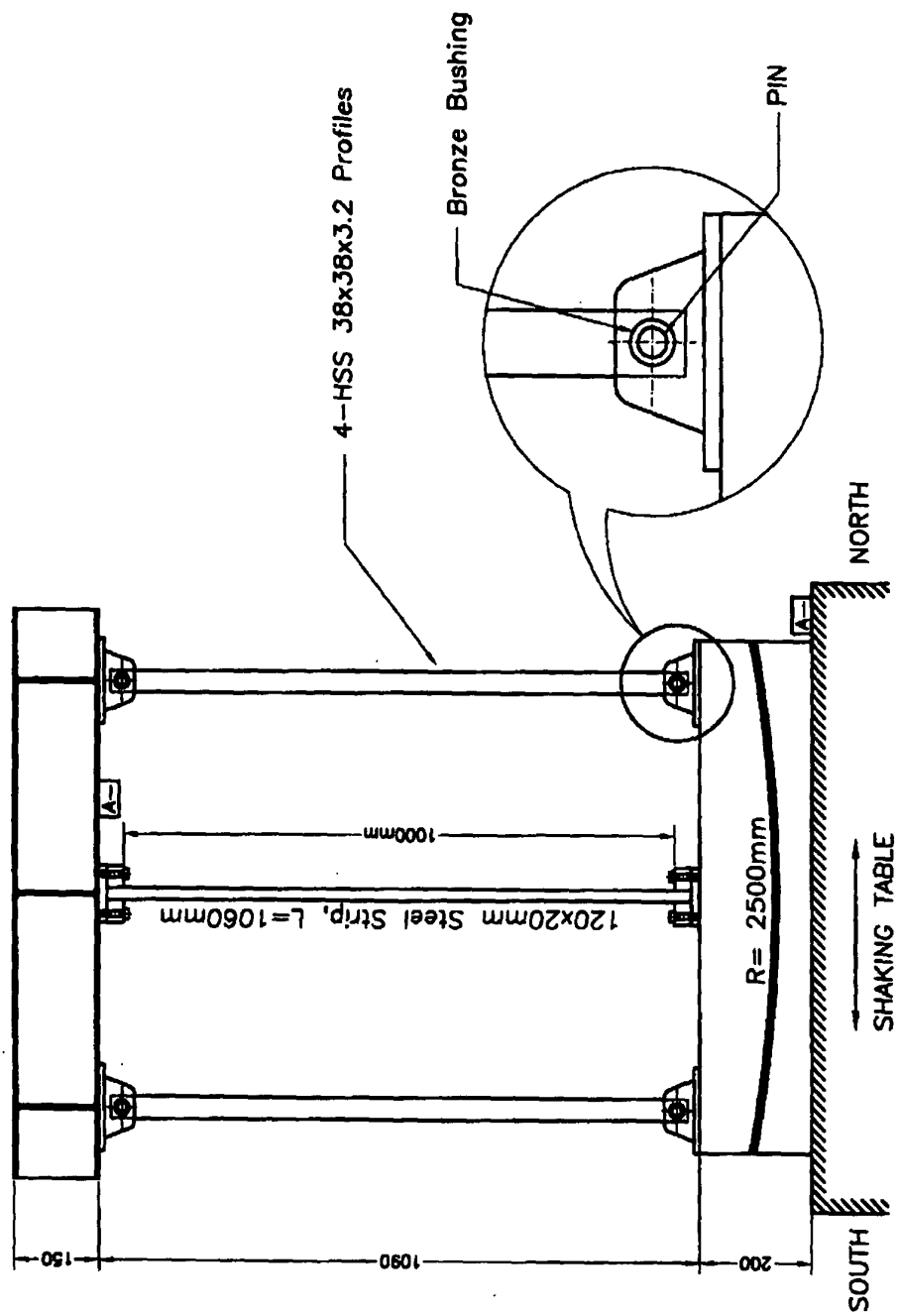


Figure 13

Performance of SCF system: Experiment vs Analysis

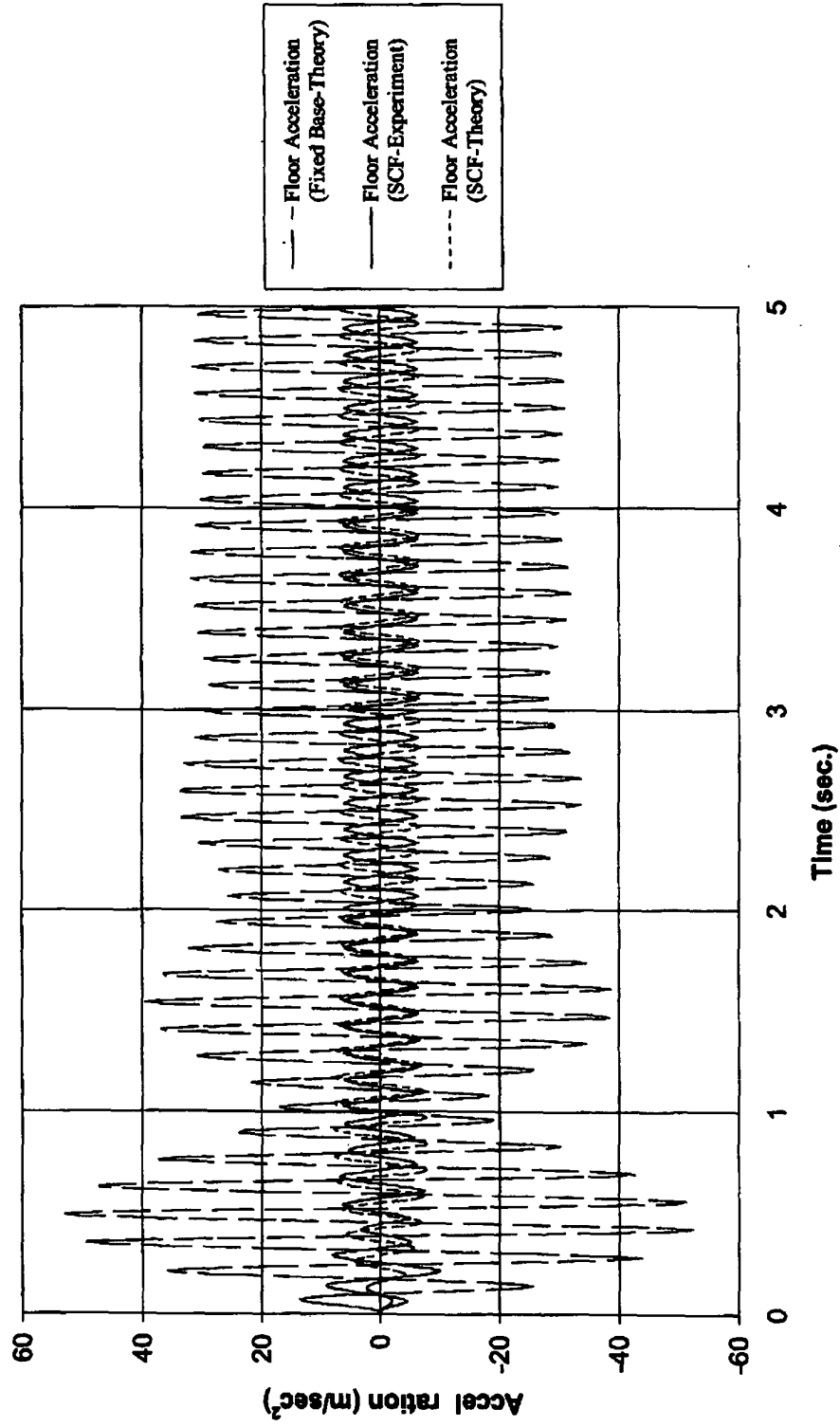


FIG. 14